

AMENDMENTS TO THE CLAIMS

This Listing of Claims will replace all prior versions, and listings, of claims in the subject Patent Application:

Listing of Claims:

1. (Currently amended) A liquid crystal projection device using a ferroelectric liquid crystal (FLC) modulator, the liquid crystal projection device comprising:

a ferroelectric liquid crystal (FLC) modulator for receiving an incident light beam transmitting along an incident light path, the incident light beam then being modulated into an image light beam by the FLC modulator, wherein the image light beam is reflected by the FLC modulator along a reflection light path, and wherein the incident light path and the reflection light path are situated at ~~an~~ non-zero angle of between 20 and 40 degree.

2. (Canceled).

3. (Currently amended) A liquid crystal projection device using a ferroelectric liquid crystal (FLC) modulator, comprising:

a light source for providing light beams;

an optical lens module for receiving and projecting the light beams along an incident light path; and

a ferroelectric liquid crystal (FLC) modulator disposed on the incident light path for receiving light beams transmitting along the incident light path, the light beams then being modulated into image light beams by the FLC modulator, wherein the image light beams are reflected by the FLC modulator along a reflection light path, and wherein the incident light path and the reflection light path are situated at an non-zero angle of between 20 and 40 degree.

4. (Original) The liquid crystal projection device using a ferroelectric liquid crystal (FLC) modulator as claimed in claim 3 further comprising a projection lens disposed on the reflection light path for receiving and projecting the image light beams.

5. (Original) The liquid crystal projection device using a ferroelectric liquid crystal (FLC) modulator as claimed in claim 4 further comprising a lens disposed between the FLC modulator and the projection lens for receiving the image light beams from the FLC modulator and projecting the received image light beams to the projection lens.

6. (Original) The liquid crystal projection device using a ferroelectric liquid crystal (FLC) modulator as claimed in claim 3 wherein the optical lens has an optical axis in parallel with the incident light path.

7. (Original) The liquid crystal projection device using a ferroelectric liquid crystal (FLC) modulator as claimed in claim 3 wherein the optical lens comprises a color plate, a front lens, an integrator unit, a polarity conversion unit, and a rear lens, which are sequentially disposed along an optical axis for receiving the light beams, and the light beams are modulated into light beams with different wavelengths which are uniformed and polarized.

8. (Original) The liquid crystal projection device using a ferroelectric liquid crystal (FLC) modulator as claimed in claim 7 wherein the color plate has R/G/B regions to form different colors of light.

9. (Withdrawn) A liquid crystal projection device using a ferroelectric liquid crystal (FLC) modulator, comprising:

a light source for providing white light beams;
a plurality of ferroelectric liquid crystal (FLC) modulators for modulating light beams into image light beams;

a color separation device for receiving the white light beams and separating the white light beams into a plurality of dichroic light beams according to wavelength, the dichroic light beams incident to the corresponding FLC modulators along incident paths and being reflected to form a plurality of image light beams along reflection light paths, wherein the incident light path and the reflection light path are situated at a non-zero angle;

a light integration device disposed on each of the reflection light path; and

two light-phase adjusting devices installed between the FLC modulator and the light integration device on two reflection light paths.

10. (Withdrawn) The liquid crystal projection device using a ferroelectric liquid crystal (FLC) modulator as claimed in claim 9 wherein the incident light path and the reflection light path are situated at an angle of between 20 and 40 degree.

11. (Withdrawn) The liquid crystal projection device using a ferroelectric liquid crystal (FLC) modulator as claimed in claim 9 further comprising a plurality of polarizing device disposed on corresponding incident light paths.

12. (Withdrawn) The liquid crystal projection device using a ferroelectric liquid crystal (FLC) modulator as claimed in claim 9 further comprising a plurality of purifying device disposed on corresponding incident light paths for purifying the image light beams.

13. (Withdrawn) The liquid crystal projection device using a ferroelectric liquid crystal (FLC) modulator as claimed in claim 9 further comprising an integrator disposed between the light source and the color separation device for integrating the light beams from the light source.

14. (Withdrawn) The liquid crystal projection device using a ferroelectric liquid crystal (FLC) modulator as claimed in claim 9 wherein the color separation device is a intersecting prism.